- 1 -

SEQUENCE LISTING

<110> Autogen Research Pty Ltd
       Deakin University

<120> A novel gene and uses therefor

<130> 12396690/EJH

<150> US 60/439767
<151> 2003-01-13

<160> 13

<170> PatentIn version 3.1

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ctggtggtag gagaccaagc gcctcatgag gatgccgtgg tggagtgtaa ctcaaaactg   240

gaccccacac agacctcgtt cctcaagatg gctgattctg gaggtcagcc acagctgacc   300

-2-

cagccaggca agctgactga ggctttcaag tacttnctgc aaggcatggg ctacatggcc   360

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gtgccagtgg cgagtgggtc cggatttatc gtgtctgagg atggactgat tgtgaccaat   180

gctcacgtgg tgaccaacaa aaacagggtc aaggttgagc tgaagaatgg agcaacctat   240

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attaggttca	aattatacct	gattcatcta	tatttacttt	taaaatgtgt	ggtttcctca	180
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gggaggtgta	agttagtttg	gttagtgcct	aatagttaaa	tttatataaa	ataagaatga	360
gcatttggta	tctgtatgaa	agggccctaa	atcaaaatga	ttatccataa	tcaatcttta	420
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acctgggaag ctacgatgcg agcttgatgc cgctacccta gcaggctatg gacttcctga     180

gggtcctcgg actgttgaca cccattccga tccgcatcct tccaagctga taagcccggg     240
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accctagggc ggggtgccca gactcatgtg tgacgccttg cagtgaaacc ccattcccag    300

tgtggttgct tctttgctgg gctttggccc atttgatacc acgaaggatg acgatgctag    360

ttatgcagca gccaacacac ctcccccaa ctctccgctg tcactggtgg gccccactgt    420

ccaggaagca ggtgtccgga actgacatct tggagcagag gggccatgag aggtgtgtgt    480

atcctgccag aaagcagctg gaccacgacg ctcccaagat gaacccactg tatacagagg    540

catcatggga gttgttatgt caggagcatt ctagacccac gtgtacttga gcgtggaaag    600

acagaagana ngcgcagaga ctggggcact tgatctgctc accatgatcg cctgcacggg    660

tctcatccag ttcctgcctt aggctacagt ggcggtgtcc acgggcttgc cattcaacgt    720

gctctcagac ccagatcggg ctcaccactg aggagaacct tttcactttg gtgggtatgc    780

agagggaagg gtctcgactc cagagacctg gagtccaaag tttgtttttt tttatttacc    840

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tcacagtttc acactgtggg aacaggcatc cttgttctta cagattagcg cgagggaaac    1020

cagaaatatt aaacacgcag ggttgtctct ccaaagggag aggcacatac cctgttttcc    1080

tcccgaaggc tgggagcgga ggtgtttgat atcctggcta cctctgtgca atctgtaggc    1140

catgtcctta agatgtagct gtcagtcggt agtggagccg gagccgtcag tcagtagatt    1200

ggggttgtgg catgcgcctt taactccatt taattccagc actctagtgg tttggtacag    1260

cagcagcagc agcggttgca gtggcccggg gaagtcctga agaccagctt tcatcccagc    1320

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agtccagncn agccagggct acaacagaga aancctctct attgaaaaat aaataaatta    1440

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tttttgtgca cncaagaaaa ttgtttaact ggtgtcagac tcctgaagtt tgaaccagca    1560

cttagccngg cgtggtggcg cacgcctgta atcccagccc tcgggaggca gaggcaggtg    1620

gatctctgag ttagaggcca gcctggtcta cagagtgagt ccaggacagc caggattaca    1680

cagagaaacc ccgtctcaaa aatgtaaaat aaattaaaat aaagtttgaa ccaacagtgt    1740

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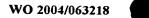
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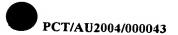
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tttctgttga gatgttggat gaaaacaagt atccactgtt taccaacttg acgaaaaatc     120

tcaactgagg tttggctgtt aaaaaaaaaa attcactgtg gcctctgtgc ttaattgtcg     180

taaaccattg tgactgttac tgctcaaagt atcgtactgt tcattagtaa ctacatcaga     240

attgcaccgc tgctgttgga aaagccaata aagaaacccc cagactgctg ctcagcaaat     300

gttaataaag tgtgcgcacc gtaggcctgt ccacccagtc accaagcagc gtccctttgt     360

ctgcgagtgg ctgtgggtgt gattnaccac ctcagaggtg cacagcacct gcttgngccc     420

ttaagtgtgn gtcagaagac aagcagcttc tcggtaacca acaacctgct tttcggagct     480

cagtgtttag gctgtttact gaatcanata tgtaactcag cacacataag cgaagagaga     540

ttttggctgc actggcaaga gtgaaccaaa tttacttcta ttttttaaag gcagatcata     600

tttaagcata taagtaattt atggatataa attgttggat atttattttta gtctgaatat     660

ttgtttttaa attattacat gtgttctcta tgtctttatc tctggaataa cgatgccatt     720

aaccacatgg ccatatgttt tgaaagttgg gtgnaacaga ggaaaagtca tccttcttgg     780
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ttcttgactc cctttcctca actacatgat aagtctatca ataaagcatt tgacctcagc    840

aggggcagaa gcctgnaaag ttagaaaact cattgaccac agtagacaat tgatttctta    900

gaaataagaa gtgagaagca gctgctgngc tgagcagggg atgtaaacca agtccagatg    960

caccaacgtg aagaggcttn tagcaaaaat atgtttgcct ctcacccctg cacatgttct   1020

agatgcttaa aaacagccac atggccccgc tgcgaggacc tcgtaatgtt gttgttgttg   1080

ttgttgttgt taaaggagtt ctcacaagcg tacaagtgca gcactgaaag tggctgaggc   1140

ccacagtcct cagcacccaa gtctnttccg cagcacgcca agctggtgtt gtccgggtgn   1200

gtatgtctgt gctcagtgcc aagctggtgt ttggtcccgt tgtatattat gtgccccaag   1260

tgttttgggg canagctgac ccangctgga cacacttctt ttngncttcg agtttactgg   1320

ttgatncagn taaaaataaa ttaattaatt aaagactt                           1358
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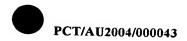<213> Psammomys obesus

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aagaccacct gcagctgcag cctggcggtc cagctgtcta agggacgtga gagtgttcta   180

atcatttcca cagacccagc tcacaacatc tcagatgcat ttgaccagaa gttctccaag   240

gtgcctacca aggtcaaagg ctatgacaac ctctttgcta tggagataga cccgagcctg   300

ggcgtggcag agctccctga tgaagttctt cgaggaagac aacatgctga gcatgggcaa   360

gaagatgatg caggaggcca tgagcgcctt   390

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<223> n = any nucleotide sequence

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<400> 7

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tttactgaca ctgttgatgg cctatgctgt gttttcacat cacaattctt gtatggaaaa     120

atttctgtgg cctgtgtaac ccctctggtc agtattatga aaccaactat ctttggtgat     180

aaataaggtt ccggtaagat gcccagggtt catgagtatg cacaaataa cagaggacag      240

gaggccttca cgacgaagga gcccgtaagt ggcctggagg gcacagatgc agttccaggt     300

caagaaaaga gcagcttttt caacaggcag tctgtgggta tgatgggaac tcagcctgtc     360

tctgtagtta tggacagcgt ggcaggtgac tgtgcccaca tcttcctata cagtgctttt     420

tttttactga ctggaagtac gtgaatctca cttagtcccc aactggacgt tttctggaaa     480

aacaaagcaa atgttaaagt atgtctttct ggatataggc cagnagnaaa tacattaaga     540

atgagaggcc ttgctttgat ctcagccatt ggaggctaga aaaaaattga aaggaacctt     600

cctgttgata gactcaaagc cgtgaacaga agcctcttgg cctgtttcag acaatctctg     660

gtaatctact gacaatatcc aacagtttcg atgtccttgt ttaactaccc tggtagcttt     720

cttgtggatt tgaagttcat tttaaagct gtggaatttc aaactgaatt cacgtgcatt      780

ttgtaaaagt tcagaaccag tgctgagtct gtgtggcagg ttttttcac cgcgtgatat      840

actattacaa atgcatgtgg tgccatgctt gtcttcaaat atataagtag tgctaaatgg     900

ataagtcata tggagctttt gatttag                                         927
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gctttaacca  tgggaggagg  ggtggggggg  gaactcattc  aagctgccag  tattttgatc    360

tacaacctgt  agca                                                        374


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<223>  n = any nucleotide sequence
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ccctctacaa natgggcttc cccgaagcgg ncagctcctt cagaacacac canatttcgg     120

ctgctcccac cagctctgca agggatggat tcaaggccaa tcttgtcttt aaggagatcg     180

agaagaagct tgaagaggaa ggggaacagt tcgtgaagaa gatcggtggg atttttgcct     240

tcaaagtgaa ggacggccct ggaggcaaag aagccacctg ggtggtggat gtgaagaatg     300

gcaagggatc cgtgcttccc aactcagata agaaggctga ctgcacaatc accatggccg     360

actccgactt gctggctctg atgactgnca aaatgaaccc tc                        402


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<220>
<223>  primer T7

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<213>  peptide

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Glu Val Ser Cys
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<210> 13
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<212> PRT
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<400> 13

Gly Thr Arg Ser Arg Ser His Thr Ser Glu
1   5   10